		2
February 19, 1982		
		STA
National Intelligence Counc	eil	
Washington, D. C. 20505		
Dear		STA
the recognized Turbine Manu equipment that could be use tried to show the model and they currently produce and	on Thursday, I have enclosed a listing of affacturers throughout the world that produce ed for Gas Compression Drivers. We have a size by horsepower rating of the Drivers market to confirm the information that was scussions in the Wednesday meeting.	,
In addition, we have also i	ncluded a list of Pipeline Compressor	
	e basic type of information for your file.	
Manufacturers with the same You will note that in the chave not listed the Russian coincide with the data that on Wednesday and therefore listings. I hope this inf	e basic type of information for your file. ease of both Turbines and Compressors, we manufactured units. Our data would	STA
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Approved For Release 2007/07/06: CIA-RDP84T00109R000100110020-7

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TURBINE MANUFACTURERS

Manufacturer	Location	<u>Model</u>	ISO HP Rating
GE and Associates	Schenectady, N.Y.	M1502	5050
GE Associates Incl		M3142	14600
Nuovo Pignone	Florence, Italy	M5252	26250
John Brown	Scotland	M5352	35000
Thomassen	Holland	7LM2500	27500
AEG-Kanis	West Germany	7112300	27300
KVAENER-Brug	Norway		
Hitachi	Japan		
IHI (Ishikawajima	Japan		
-Harima Heavy Indus			
Westinghouse	Hamilton, Ontario	CW182MB	19500
"COCIMONOGOE"	namifical, official to	CW152MB	18500
		CW33ZMB	39800
Ingersoll-Rand	Philipsburg, N.J.	GT22	4250
	and U.K.	GT52	15800
		GT61	26500
		GT62	29150
			,,
Dresser-Clark	Olean, N.Y.	DC990	6000
	France	DJ125R	15900
	Canada -	DJ270G	26800
	Lethbridge, Alberta	DJ290R	29200
Cooper Energy	Mount Vernon, Ohio	Coberra 2348	16150
Services	Stratford, Ontario,	Coberra 3045	
	Liverpool, U.K.	Coberra 6056	
	•		
GEC	Whetstone, Leicester,	EAS 133	16290
	U.K.	ERB 124	28720
	•	ELM 125-2	26380
Sulzer	Trend als Conference 1 - 3	67	1/000
Suizer	Zurich, Switzerland	S7	14200
		Primo 12	16350
		Primo 21	28140
Stal-Laval	Sweden	GT35	16800
• •	•	CP3	16000
		•	
Solar	San Diego, Ca.	Saturn	1140
		Centaur	3830
		Mars	-10600
(1)	<u> </u>		
Detroit Diesel	Indianapolis,	501KC	4330
Allison	Indiana	571KC	7300
	*		

Turbine Manufacturers Page Two

Manufacturer	Location	<u>Model</u>	ISO HP Rating
Ruston	Lincoln, U.K.	TA1750 TB5000 Tornado	1875 4900 8500
Hispano-Suiza	Paris, France	THM 1103 THM 1203 THM 1304	5900 7510 10860

Note: Turbine model sizes listed are representative of sizes used in transmission service. Manufacturers offer additional models within this same power range.

(1)
Allison works with Ingersoll-Rand and Creusot-Loire as OEM's.
Allison also sells through a worldwide distributor network.

Other turbine manufacturers exist, however, Cooper Energy Services does not consider these firms competitors in the natural gas compression market. The following is a list of firms included in this category: Alsthom-Atlantique, Brown Boveri - Turbomachinery, Fiat Aviazione, Fiat TTG.

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PIPELINE COMPRESSOR MANUFACTURERS

Manufacturer	Location	Power-HP (000)	ressor Size Flange Diameter (inches)
Cooper Energy Services	Mt. Vernon, Ohio Stratford, Ont., Can. Liverpool, U.K. Licensees: C-L France KHI Japan	3-40	14,20,24,30,36,42 Axial inlet - 36
Ingersoll-Rand	Phillipsburg, N.J. Wythenshaw, U.K.	3-40	16,24,30,36
Dresser-Clark	Olean, N.Y.; Canada LeHavre, France Licensees: Mitsubishi - Japa DeMag (per job co for USSR)		16,24,30,36,42 Axial inlet - 42
DeLaval	Trenton, N.J. HengelO, Holland (50:50 J.V. with Stork)	3-40	16,20,24,30,36 (Design available for 42)
Nuovo Pignone	Florence, Italy	3–40	16,20,24,30,36 (Design availble for 42)
Hispano-Suiza	Paris, France	6-14	16,20,24 (Marketed with H-S gas turbines only)
Solar	San Diego, Ca.	1-11	8,12,16,24 (Marketed only with Solar gas turbines)
DeMag	Duisburg, W. Germany -Per job contracts with Dresser for USSR projects	15-40	24,36
·	-Modified barrels of own design (marketing activity to AEG and Ruhrgas only)	15-40	24,30,36
GHH · ·	Oberhausen, W. Germany -Modified barrels of own design (no marketing activity past 5 years)	5-40 (est) y	16,30,36 (est)
Borsig	Berlin, W. Germany -Modified barrels of own design (sold one unit to Nova-Canada as part of their waste heat package. No other visible marketing activity)	5-20(est)	16,20,24(est)

Pipeline Compressor Manufacturers
Page Two

		Compressor Size	
Manufacturer	Location	Power-HP (000)	Flange Diameter (inches)
Sulzer	Zurich, Switzerland -Modified barrels, own design	5-30(est)	12,16,24 (est) (Sulzer gas turbines only)

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